

**Notice of Allowability**

Application No.

09/608,997

Examiner

CHUONG T. HO

Applicant(s)

RANGARAJAN ET AL.

Art Unit

2619

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/05/07.
2. ☒ The allowed claim(s) is/are 1-6, 8-10, 24, 12-17, 26, 18,20, 22-23, 28 renumbered 1-22 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>12/05/07</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|  | 9. <input type="checkbox"/> Other _____  |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John F. Conroy on December 06, 2007. (858) 678-4346

2. The application has been amended as follows:

#### **IN THE CLAIMS**

CLAIM 1, after line 1, insert – a networking router architecture comprising: -----;

CLAIM 1, after line 16, insert ----- wherein the receiver is outside of the network router architecture -----;

CLAIM 2, lines 1-3, replace "The apparatus of claim 1 further comprising additional intermediate components bridging the first component and the second component to forward the data" by ---- The apparatus of claim 1, wherein the networking Router architecture further comprises additional intermediate components bridging the first component and the second component to forward the data -----.

CLAIM 12, lines 2-3, replace "performing a lookup in a routing table to determine a proxy egress port by which data is to leave a component" by ---- performing a lookup in

a routing table to determine a proxy egress port by which data is to leave a first component ---;

CLAIM 12, after line 6, insert ---, wherein the receiver is outside of the network router architecture; ----;

CLAIM 12, after line 14, insert ---wherein the network router architecture comprises the first component, the intermediate component, and the egress component -----;

CLAIM 13, after line 3, insert ---the network router architecture further comprises the additional intermediate components ----.

CLAIM 18, after line 8, insert ---, wherein the receiver is outside of the networking router architecture; ----;

CLAIM 18, after line 18, insert ---wherein the network router architecture comprises the one or more machines, the intermediate component, and the egress component ----;

CLAIM 22, after line 5, replace "address of the second component" by --- address of the egress component---;

CLAIM 24, lines 1-2, replace "The apparatus of claim 1 wherein the apparatus comprises a modularized network element" by ---- The apparatus of claim 1 wherein the networking router architecture comprises a modularized network element ----;

CLAIM 26, lines 1-6, replace "The method of claim 12 wherein performing the lookup to determine the path comprises performing the lookup to determine the path comprises performing the lookup to determine the path in a modularized network element that includes the egress component and the intermediate component, wherein the position of the components in the network element changes based on the path. " by ---- The method of claim 12 wherein: the networking router architecture comprises a modularized network element that includes the egress component and the intermediate component; and the position of the components in the network element changes based on the path. ----.

CLAIM 28, lines 1-7, replace "The article of claim, wherein the machine-executable instructions are further for causing the one or more machines to: performing the look up to determine the path in a modularized network element that includes the egress component and the intermediate component, wherein the position of the components in the network element changes based on the path " By -----The article of claim 18, wherein: the networking router architecture comprises a modularized network element that includes the egress component and the intermediate component; and the position of the components in the network element changes based on the path -----.

***Allowable Subject Matter***

3. Claims 1-6, 8-10, 24, 12-17, 26, 18,20-23, 28 are allowed.

4. The following is an examiner's statement of reasons for allowance: the prior art (20040109460, 6868086, 6249820, 61781716522627) of record does not appear to teach or render obvious the claimed limitations in combinations with the specific added limitations, as recited from independent claim 1: "a networking router architecture comprising: a first component, a second component, and an intermediate component; and the intermediate component bridging the first component and the second component and acting as a transparent bridge to forward the ARP request and the labeled data packet based on the hardware address of the egress port".

The following is an examiner's statement of reasons for allowance: the prior art (20040109460, 6868086, 6249820, 61781716522627) of record does not appear to teach or render obvious the claimed limitations in combinations with the specific added limitations, as recited from independent claim 12: "the network router architecture comprises the first component, the intermediate component, and the egress component; and forwarding the data, based on the address, through an intermediate component acting as a transparent bridge to the egress component".

The following is an examiner's statement of reasons for allowance: the prior art (20040109460, 6868086, 6249820, 61781716522627) of record does not appear to teach or render obvious the claimed limitations in combinations with the specific added limitations, as recited from independent claim 18: "the networking router architecture comprises the one or more machines, intermediate component, and the egress component; and forward the data, based on the MAC address, through an intermediate component acting as a transparent bridge to the egress component".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHUONG T. HO whose telephone number is (571) 272-3133. The examiner can normally be reached on 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ORGAD EDAN can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number:  
09/608,997  
Art Unit: 2619

Page 7

12/07/07

EDAN . ORGAD  
SUPERVISORY PATENT EXAMINER

*Edan Orgad*